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Applicant Initiated Interview Request Form

674 F-W

Application No.: **10/964,737**   First Named Applicant: **Roger Tsai**

Examiner: **Cardenas Navia, Jaime F.**   Art Unit: **3623**   Status of Application: **Under Non-final rejection**

Tentative Participants:
(1) Mary E. Goulet (Reg. No. 35,884)   (2)_____

(3)_____   (4)_____

Proposed Date of Interview: ___Sept. 12, 2008___ .   Proposed Time: ____ ___PM___ _____ (AM/PM)

Type of Interview Requested:
(1) [X] Telephonic   (2) [   ] Personal   (3) [   ] Video Conference

Exhibit To Be Shown or Demonstrated: [   ] YES   [X] NO
If yes, provide brief description: _____

Issues To Be Discussed

Issues (Rej., Obj., etc.)	Claims / Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) 112[2] Rej.	8,9	_____	[ ]	[ ]	[ ]
(2) 101 Rej.	8,9	_____	[ ]	[ ]	[ ]
(3) _____	_____	_____	[ ]	[ ]	[ ]
(4) _____	_____	_____	[ ]	[ ]	[ ]

[   ] Continuation Sheet Attached

Brief Description of Arguments to be Presented:
Please see attached draft.

_____
_____
_____

An interview was conducted on the above-identified application on _____ .

NOTE: This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP § 713.01).

This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

_____   _____
Applicant / Applicant's Representative Signature   Examiner / SPE Signature

Mary E. Goulet
Typed/Printed Name of Applicant or Representative

35,884
Registration Number, if applicable

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent application of   Confirmation No. 4013

Roger Tsai   694 TW .   Group Art Unit 3623

Serial No. 10/964,737   Examiner: Cardenas Navia, Jaime F.

Filed: October 29, 2003

For: BEST INDICATOR ADAPTIVE FORECASTING METHOD

Commissioner for Patents
PO Box 1450
Alexandria, Virginia 22313-1450

DRAFT

AMENDMENT UNDER 37 C.F.R. §1.111

Sir:

.This responds to the Office Action mailed August 1, 2008.

A listing of the claims begins on page 2 of this paper.

Remarks begin on page 5.

Listing of the Claims

1-7 (Canceled)

1　　8. (Currently Amended) A computer implemented best indicator adaptive (BIA) method for
2　　demand forecasting comprising the <u>computer-implemented</u> steps of:
3　　　　　　implementing a plurality of forecasting subsystems which make use of indicators Load
4　　(L), Ship (S) and Customer Acceptances (CA) history (CA$_{hist}$);
5　　　　　　generating a forecast (CA$_L$) from Load (L) by modeling the ratio of quarter-to-date load to
6　　quarter CA actual as a random variable with gamma distribution so that the CA becomes a
7　　variable with generalized gamma distribution and computing the sample mean and sigma of the
8　　<u>quarter-to-date load to quarter CA actual</u> ~~Load-to-CA~~ ratio for a final forecasted CA$_L$ demand;
9　　　　　　generating a forecast (CA$_S$) from Ship (S) by modeling the ratio of quarter-to-date ship to
10　　quarter CA actual as a random variable with gamma distribution so that the CA becomes a
11　　variable with generalized gamma distribution and computing the sample mean and sigma of the
12　　~~Ship-to-CA~~ <u>quarter-to-date ship to quarter CA actual</u> ratio for a final forecasted CA$_S$ demand;
13　　　　　　generating a forecast (CA$_{LS}$) from Load and Ship (LS) by forecasting Customer
14　　Acceptances (CA) based on Load (L), Ship (S) and Customer Acceptances history (CA$_{hist}$) to
15　　generate CA$_{LS}$ by estimating the functional relationship and the parameters relating the two ratios
16　　~~Load-to-CA~~ <u>quarter-to-date load to quarter CA actual</u> and ~~Ship-to-CA~~ <u>quarter-to-date ship to</u>
17　　<u>quarter CA actual</u>;
18　　　　　　generating a forecast from Customer Acceptances history (CA$_{hist}$);
19　　　　　　refining the forecasts based on distribution demand using Customer Requested Date
20　　(CRAD) by
21　　　　　　generating a forecast from Load (L) and CRAD as CA$_{L,CRAD}$,
22　　　　　　generating a forecast from Ship (S) and CRAD as CA$_{S,CRAD}$, and
23　　　　　　generating a forecast from Load (L) and Ship (S) and CRAD as CA$_{LS,CRAD}$;
24　　　　　　for each forecast CA$_L$, CA$_S$, CA$_{LS}$, CA$_{L,CRAD}$, CA$_{S,CRAD}$, CA$_{LS,CRAD}$, and CA$_{hist}$, determining
25　　a forecast error;
26　　　　　　eliminating CA$_{LS}$ and CA$_{LS,CRAD}$ if data is for a historical period shorter than a

27   predetermined period;

28   eliminating any other forecast due to expert knowledge;

29   for all remaining forecasts, selecting a forecast having a smallest error; and

30   outputting a selected forecast as an optimum forecast.

1   9. (Currently Amended) A computer implemented best indicator adaptive (BIA) method for

2   demand forecasting comprising the computer-implemented steps of:

3   inputting Load (L), Ship (S) and Customer Acceptances (CA) quarterly history (CA_{hist})

4   data;

5   implementing a plurality of forecasting subsystems making use of four sources of

6   information, Load (L), Ship (S), Customer Acceptances quarterly history (CA_{hist}), and Customer

7   Request Date (CRAD);

8   forecasting Customer Acceptances (CA) based on Load (L) to generate CA_L by modeling

9   a ratio of quarter-to-date load to quarter CA actual as a random variable with gamma distribution

10   so that the CA becomes a variable with generalized gamma distribution whose mean and sigma

11   can be easily computed from the sample mean and sigma of the ~~Load-to-CA~~ quarter-to-date load

12   to quarter CA actual ratio;

13   forecasting Customer Acceptances (CA) based on Ship (S) to generate CA_S by modeling

14   the ratio of quarter-to-date ship to quarter CA actual as a random variable with gamma

15   distribution so that the CA becomes a variable with generalized gamma distribution whose mean

16   and sigma can be easily computed from the sample mean and sigma of the ~~Ship-to-CA~~ quarter-

17   to-date ship to quarter CA actual ratio;

18   forecasting Customer Acceptances (CA) based on Load (L), Ship (S) and Customer

19   Acceptances history (CA_{hist}) to generate CA_{LS} by estimating the functional relationship and the

20   parameters relating the two ratios ~~Load-to-CA~~ quarter-to-date load to quarter CA actual and

21   ~~Ship-to-CA~~ quarter-to-date ship to quarter CA actual;

22   using a log mean to sigma ratio of CRAD distribution, adjusting the forecasts CA_L, CA_S

23   and CA_{LS} to arrive at more accurate forecasts $CA_{L,CRAD}$, $CA_{S,CRAD}$, and $CA_{LS,CRAD}$;

24   for each forecast CA_L, CA_S, CA_{LS}, $CA_{L,CRAD}$, $CA_{S,CRAD}$, $CA_{LS,CRAD}$, and CA_{hist}, determining

25   a forecast error;

26   eliminating CA_{LS} and $CA_{LS,CRAD}$ if data is for a historical period shorter than a

27 predetermined period;

28   eliminating any other forecast due to expert knowledge;

29   for all remaining forecasts, selecting a forecast having a smallest error; and

30   outputting a selected forecast as an optimum forecast.

REMARKS

Claims 8-9 are pending in this application. Claims 8-9 are amended above.

In the office action, Claims 8 and 9 have been rejected under 35 U.S.C. 112, second paragraph, as being indefinite. Above, the amendments proposed in the office action have been made. The rejection is believed to thereby be obviated.

In the office action, Claims 8 and 9 have been rejected under 35 U.S.C. 101. Reconsideration and withdrawal of this rejection are respectfully sought, in view of the claim amendments above.

In view of the foregoing, it is requested that the application be reconsidered, that claims 8-9 be allowed, and that the application be passed to issue.

Should the Examiner find the application to be other than in condition for allowance, the Examiner is requested to contact the undersigned at 703-787-9400 to discuss any other changes deemed necessary in a telephonic or personal interview.

If an extension of time is required for this response to be considered as being timely filed, a conditional petition is hereby made for such extension of time. Please charge any deficiencies in fees and credit any overpayment of fees to Deposit Account 50-0510 (IBM-Yorktown).

Respectfully submitted,

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